AQA – Sequences – GCSE Mathematics Paper-1

1.

The second and four	rth tarme	are shown			
The second and loai	itii teiiiis	are snown.			
	4		16		
Work out the first an	d third te	rms.			[2 marks
Firs	t term				_
Thir	d term _				_
The first two terms o	f an arit l	ımetic prog	ression are	shown.	
p 5p					
The sum of the first t	three terr	ns is 90			
Work out the value o	of p.				[3 marks

2.

The second a	10000			ve.	
	and fourth t	erms are sn	own.		
	4		16		
Work out the					[2 marks
	First ter	m			
	Third te	rm			
The first two	terms of an	arithmetic	progression ar	e shown.	
p	5 p				
p The sum of the	-		0		
	he first thre	e terms is 9	0		[3 marks
The sum of the	he first thre	e terms is 9	0		[3 marks)
The sum of the	he first thre	e terms is 9	0		[3 marks]

3. May/2020/Paper_1H/No.16

A sequence of numbers is formed by the iterative process

$$u_{n+1} = \frac{4}{u_n - 1} \qquad u_1 = 9$$

Work out the values of u_2 and u_3

[2 marks]	

4. June/2019/Paper_1H/No.12

The next term of a sequence is made by adding the previous two terms.

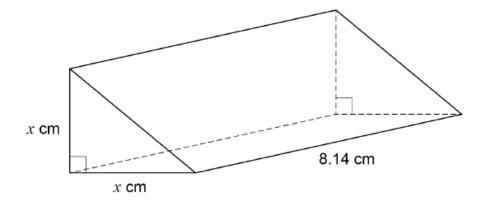
Which of these sequences follows this rule?

Circle your answer.

[1 mark]

5. June/2019/Paper_1H/No.13

The triangular cross section of a prism is an isosceles right-angled triangle.



The volume of the prism is 102 \mbox{cm}^3

Use approximations to estimate the value of x.

You must show your working.

You must snow your working.	[3 marks]
Answer	

ov/2	2019/Paper_1F/No.25	
)	A geometric progression starts 4 16	
	Work out the next term.	[1 mark
	Answer	
)	A Fibonacci-type sequence starts 3 -8 The sequence is continued by adding the previous two terms.	
	Work out the next two terms.	[2 marks
	Answer and	

7.

A geometric progression starts 4 16	
Work out the next term.	[1 mark
Answer	
A Fibonacci-type sequence starts 3 -8 The sequence is continued by adding the previous two terms.	
Work out the next two terms.	[2 marks
	Answer A Fibonacci-type sequence starts 3 -8 The sequence is continued by adding the previous two terms.

8. Nov/2019/Paper_1H/No.13

The *n*th term of a sequence is $\frac{n(n-4)}{\sqrt{n+3}}$

Work out the sum of the 1st and 6th terms.

	[3 marks

Answer